



FIG.2

Lookup tables 403

Color lookup table 403(a)				Monotone lookup table 403(b)			
Matrix	Memory	Address		Matrix	Memory	Address	
A 1 $\begin{pmatrix} K_{11} & K_{12} & K_{13} \\ K_{21} & K_{22} & K_{23} \\ K_{31} & K_{32} & K_{33} \end{pmatrix}$	R 1	K <sub>11</sub>	0H	Y 1	R 1	N <sub>11</sub>	0H
		K <sub>21</sub>	1H			N <sub>21</sub>	1H
		K <sub>31</sub>	2H			N <sub>31</sub>	2H
	G 1	K <sub>12</sub>	3H		G 1	N <sub>12</sub>	3H
		K <sub>22</sub>	4H			N <sub>22</sub>	4H
		K <sub>32</sub>	5H			N <sub>32</sub>	5H
	B 1	K <sub>13</sub>	6H		B 1	N <sub>13</sub>	6H
		K <sub>23</sub>	7H			N <sub>23</sub>	7H
		K <sub>33</sub>	8H			N <sub>33</sub>	8H
A 2 $\begin{pmatrix} N_{11} & N_{12} & N_{13} \\ N_{21} & N_{22} & N_{23} \\ N_{31} & N_{32} & N_{33} \end{pmatrix}$	R 1	N <sub>11</sub>	AH	Y 2	R 2	.	.
		N <sub>21</sub>	BH			.	.
		N <sub>31</sub>	CH			.	.
	G 1	N <sub>12</sub>	DH			.	.
		N <sub>22</sub>	EH			.	.
		N <sub>32</sub>	FH			.	.
	B 1	N <sub>13</sub>	10H			.	.
		N <sub>23</sub>	.			.	.
		N <sub>33</sub>	.			.	.
.	.	.	.				

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FIG.3

Register 502

Matrix	Memory	Address
$A1 \begin{pmatrix} K_{11} & K_{12} & K_{13} \\ K_{21} & K_{22} & K_{23} \\ K_{31} & K_{32} & K_{33} \end{pmatrix}$ $\begin{pmatrix} A1 \\ K_{11} & K_{12} & K_{13} \\ K_{31} & K_{32} & K_{33} \\ K_{21} & K_{22} & K_{23} \end{pmatrix}$	R 1	$K_{11}$ ( $K_{11}$ ) 0 H
		$K_{21}$ ( $K_{31}$ ) 1 H
		$K_{31}$ ( $K_{21}$ ) 2 H
	G 1	$K_{11}$ ( $K_{11}$ ) 3 H
		$K_{21}$ ( $K_{32}$ ) 4 H
		$K_{32}$ ( $K_{22}$ ) 5 H
	B 1	$K_{11}$ ( $K_{11}$ ) 6 H
		$K_{21}$ ( $K_{31}$ ) 7 H
		$K_{31}$ ( $K_{21}$ ) 8 H

FIG. 4

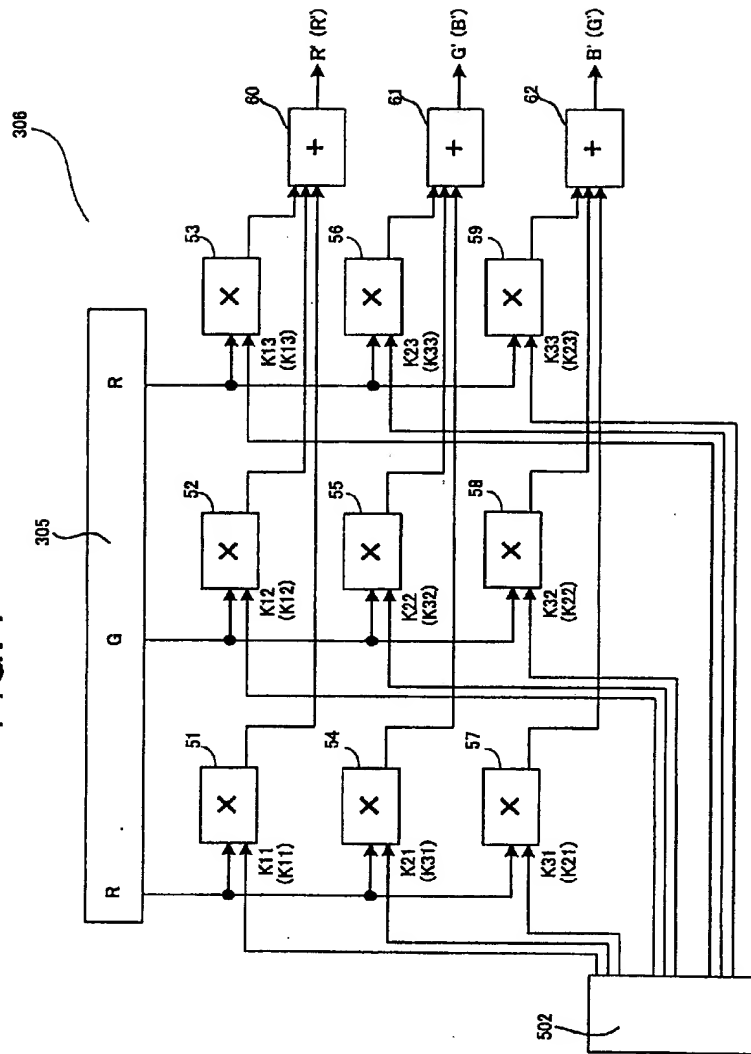


FIG.5

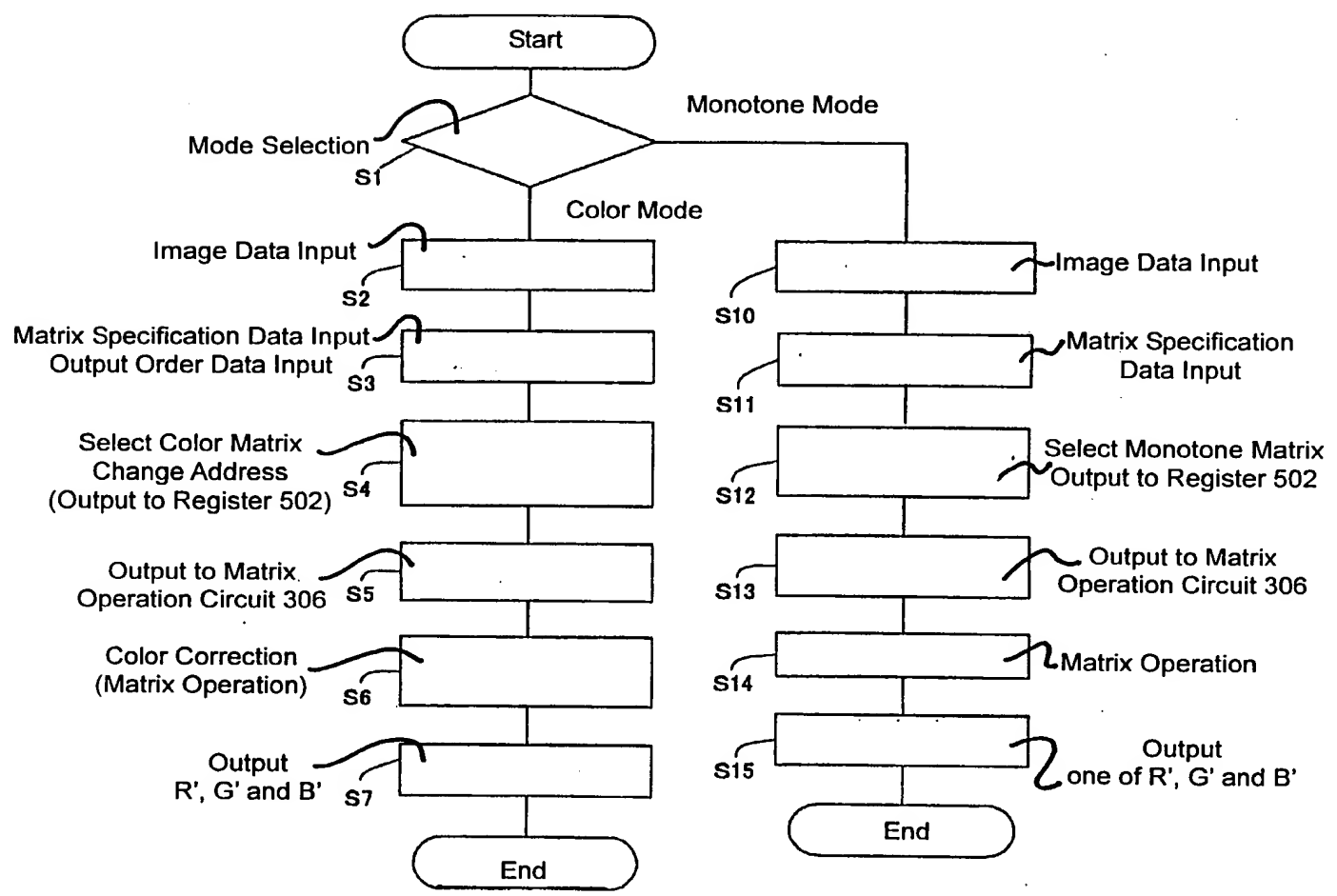


FIG. 6

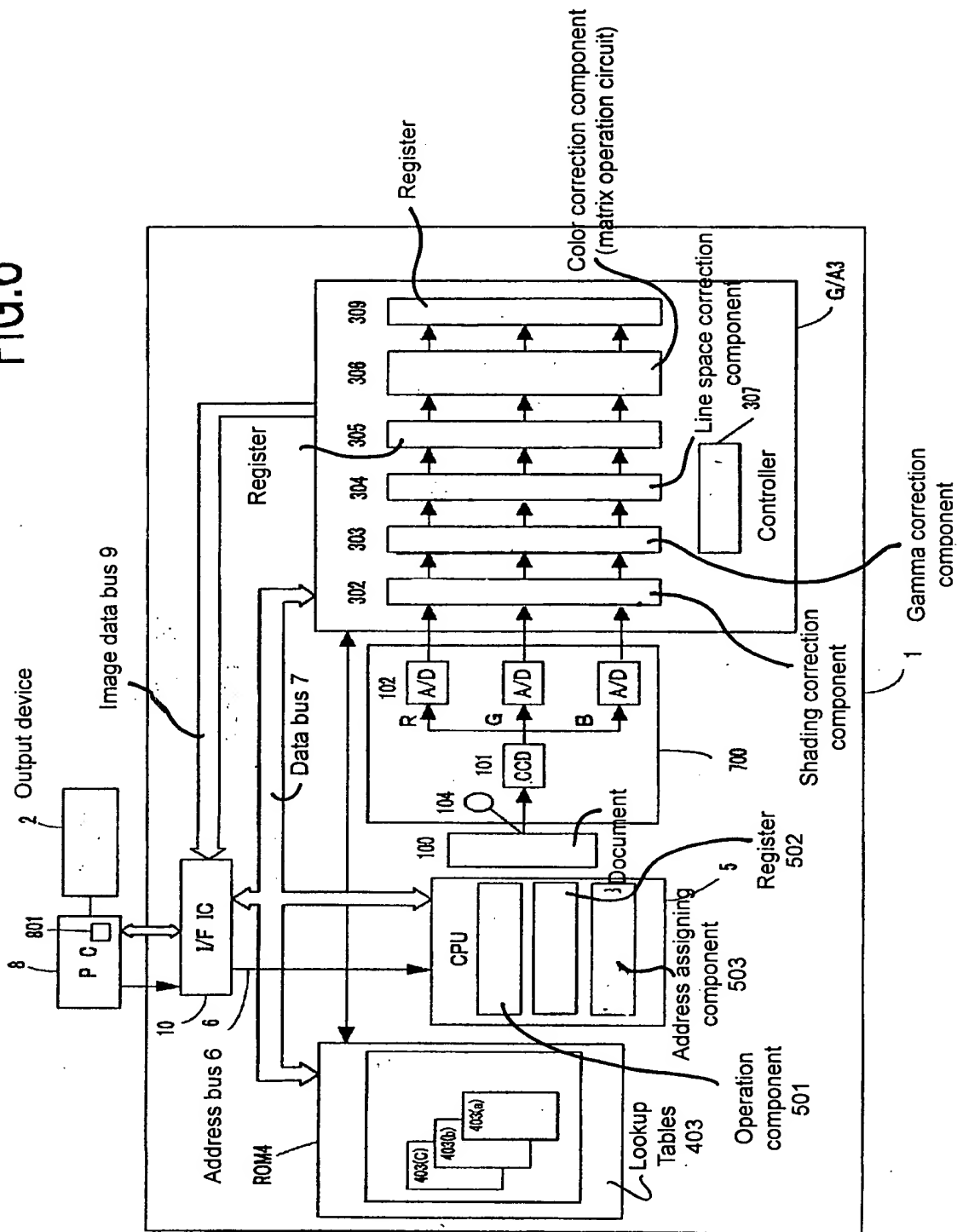


FIG. 7

Lookup tables 403											
Color correction lookup table 403(a)				Output Order lookup table 403(b)				Monotone lookup table 403(c)			
Matrix	Memory	Address		Matrix	Memory	Address		Matrix	Memory	Address	
A 1	R 1	K <sub>11</sub>	0 H	V 1	R 1	1	0 H	Y 1	R 1	N <sub>11</sub>	0 H
		K <sub>21</sub>	1 H			0	1 H			N <sub>21</sub>	1 H
		K <sub>31</sub>	2 H			0	2 H			N <sub>31</sub>	2 H
	G 1	K <sub>12</sub>	3 H		G 1	0	3 H		G 1	N <sub>12</sub>	3 H
		K <sub>22</sub>	4 H			1	4 H			N <sub>22</sub>	4 H
		K <sub>32</sub>	5 H			0	5 H			N <sub>32</sub>	5 H
	B 1	K <sub>13</sub>	6 H		B 1	0	6 H		B 1	N <sub>13</sub>	6 H
		K <sub>23</sub>	7 H			1	7 H			N <sub>23</sub>	7 H
		K <sub>33</sub>	8 H			0	8 H			N <sub>33</sub>	8 H
A 2	R 2	.	.	V 2	R 2	1	A H	Y 2	R 2	.	.
		.	.			0	B H			.	.
		.	.			.	.			.	.
		.	.			.	.			.	.

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FIG. 8A

$$\begin{matrix} & & & V1 \\ \begin{pmatrix} R \\ G \\ B \end{pmatrix} & = & \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix} & \begin{pmatrix} R \\ G \\ B \end{pmatrix} \end{matrix}$$

FIG. 8B

$$\begin{matrix} & & & V2 \\ \begin{pmatrix} R \\ B \\ G \end{pmatrix} & = & \begin{pmatrix} 1 & 0 & 0 \\ 0 & 0 & 1 \\ 0 & 1 & 0 \end{pmatrix} & \begin{pmatrix} R \\ G \\ B \end{pmatrix} \end{matrix}$$

FIG. 8C

$$\begin{matrix} & & & V3 \\ \begin{pmatrix} G \\ R \\ B \end{pmatrix} & = & \begin{pmatrix} 0 & 1 & 0 \\ 1 & 0 & 0 \\ 0 & 0 & 1 \end{pmatrix} & \begin{pmatrix} R \\ G \\ B \end{pmatrix} \end{matrix}$$

FIG. 8D

$$\begin{matrix} & & & V4 \\ \begin{pmatrix} G \\ B \\ R \end{pmatrix} & = & \begin{pmatrix} 0 & 1 & 0 \\ 0 & 0 & 1 \\ 1 & 0 & 0 \end{pmatrix} & \begin{pmatrix} R \\ G \\ B \end{pmatrix} \end{matrix}$$



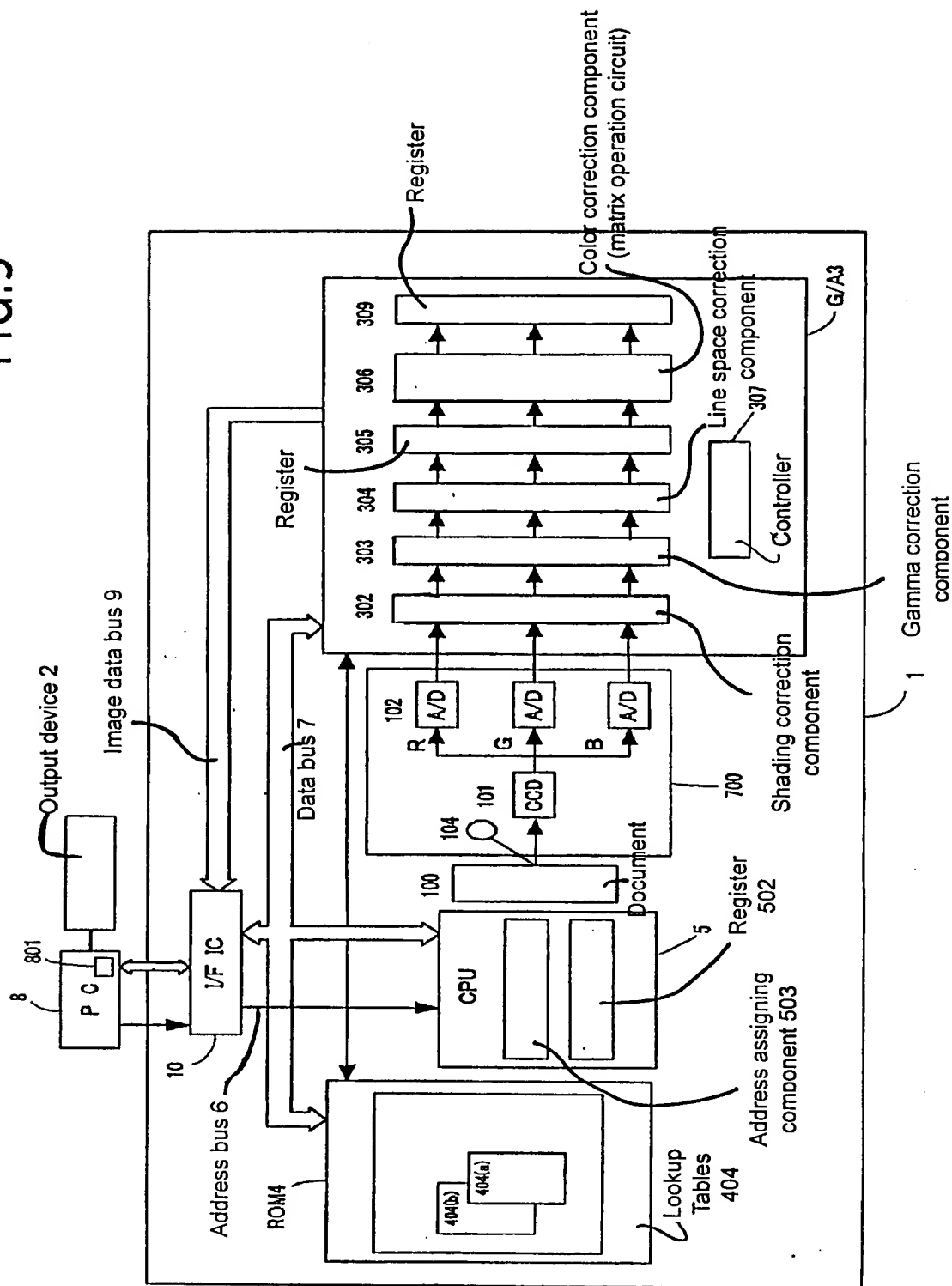
FIG.8E

$$\begin{pmatrix} B \\ G \\ R \end{pmatrix} = \overset{V5}{\begin{pmatrix} 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 0 \end{pmatrix}} \begin{pmatrix} R \\ G \\ B \end{pmatrix}$$

FIG.8F

$$\begin{pmatrix} B \\ R \\ G \end{pmatrix} = \overset{V6}{\begin{pmatrix} 0 & 0 & 1 \\ 1 & 0 & 0 \\ 0 & 1 & 0 \end{pmatrix}} \begin{pmatrix} R \\ G \\ B \end{pmatrix}$$

FIG. 9



PRIOR ART FIG.11

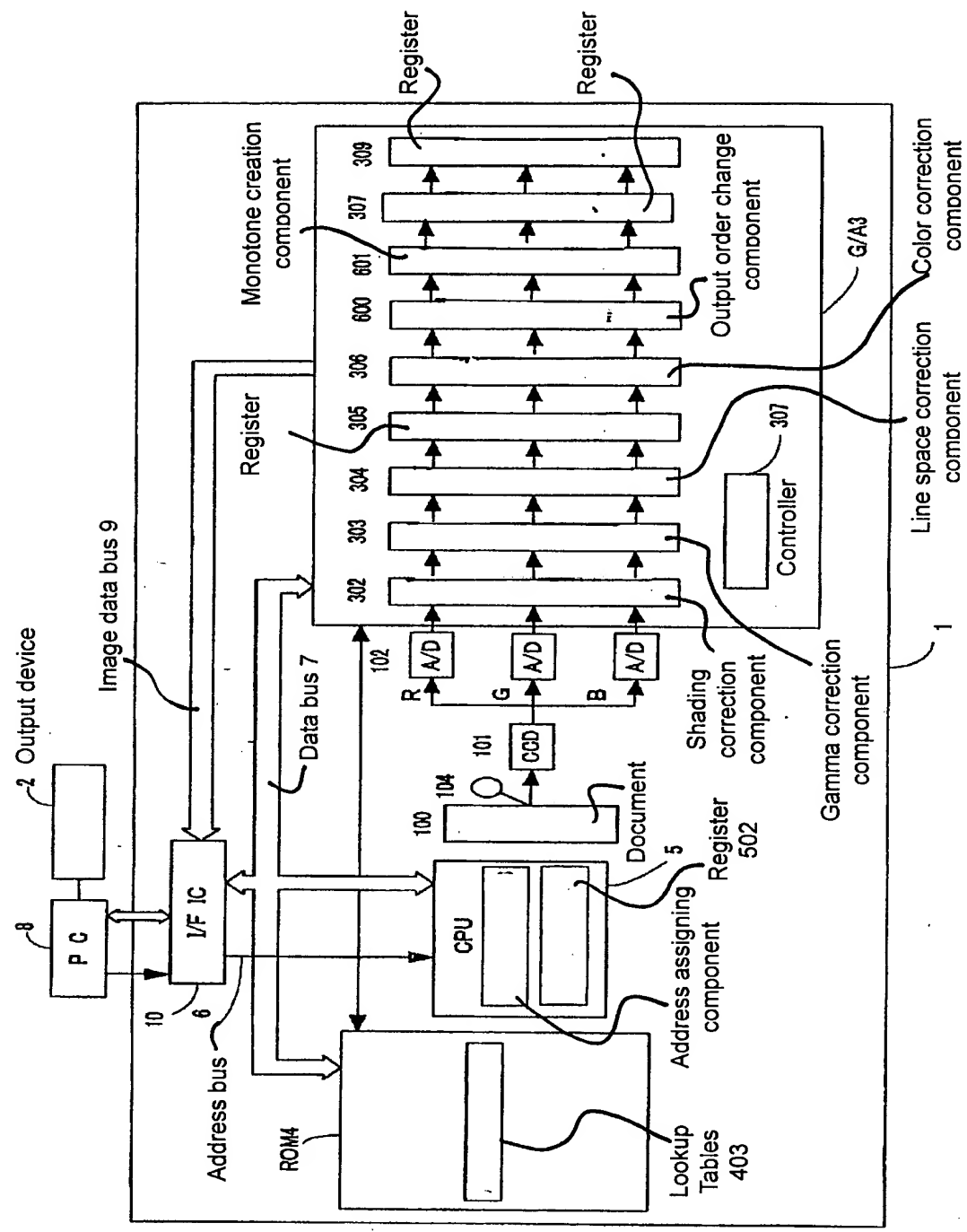


FIG.10

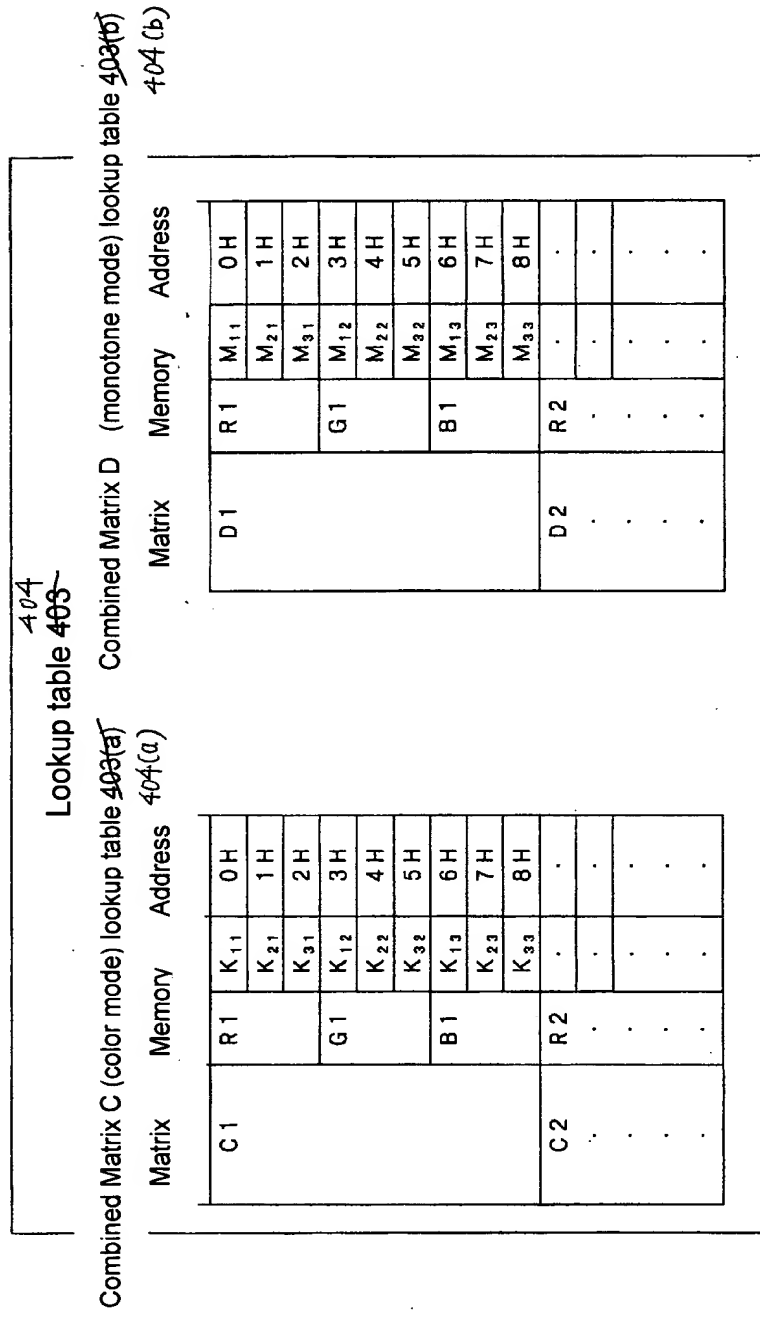


FIG.10

